

FIG. 1

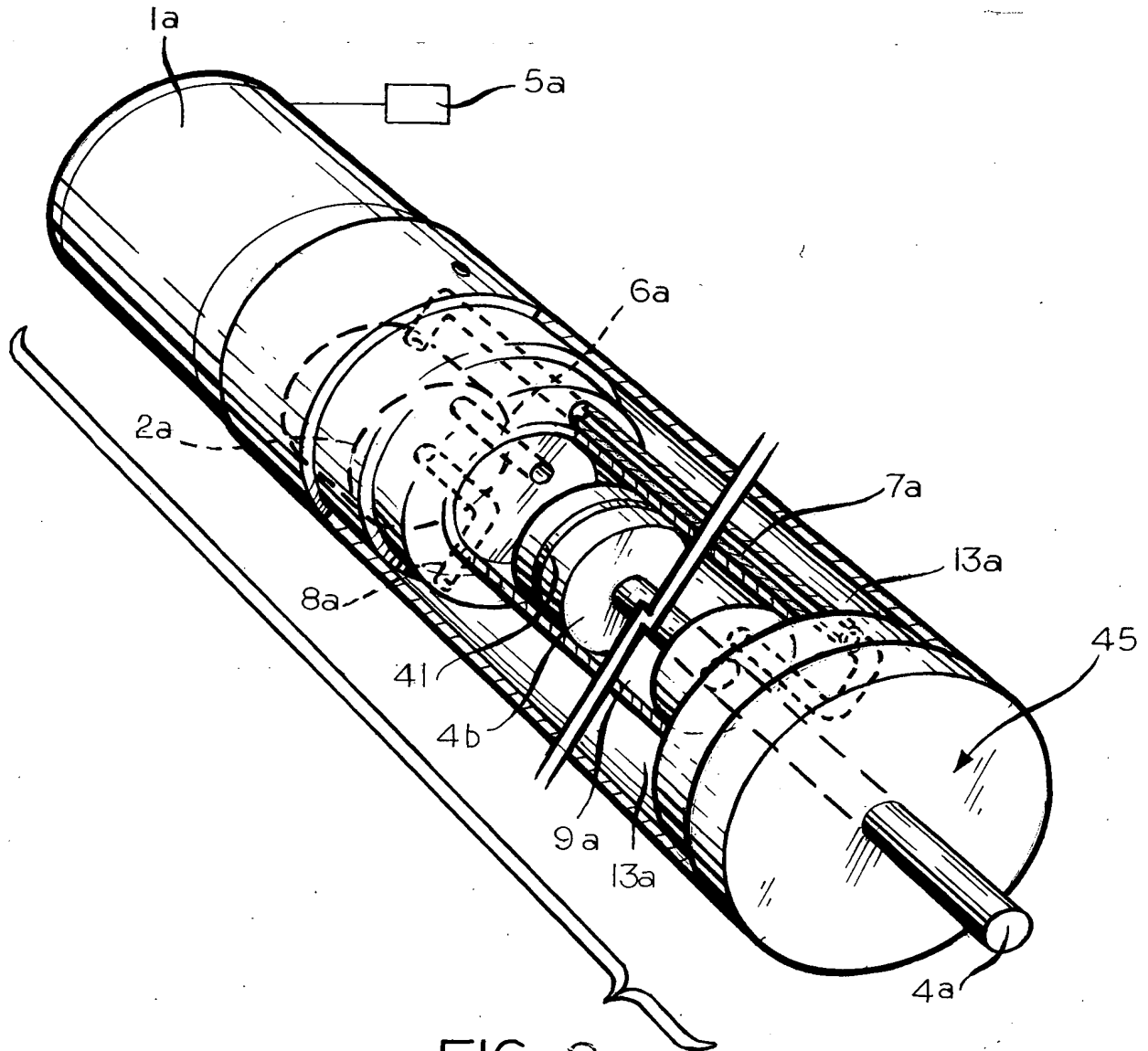


FIG. 2

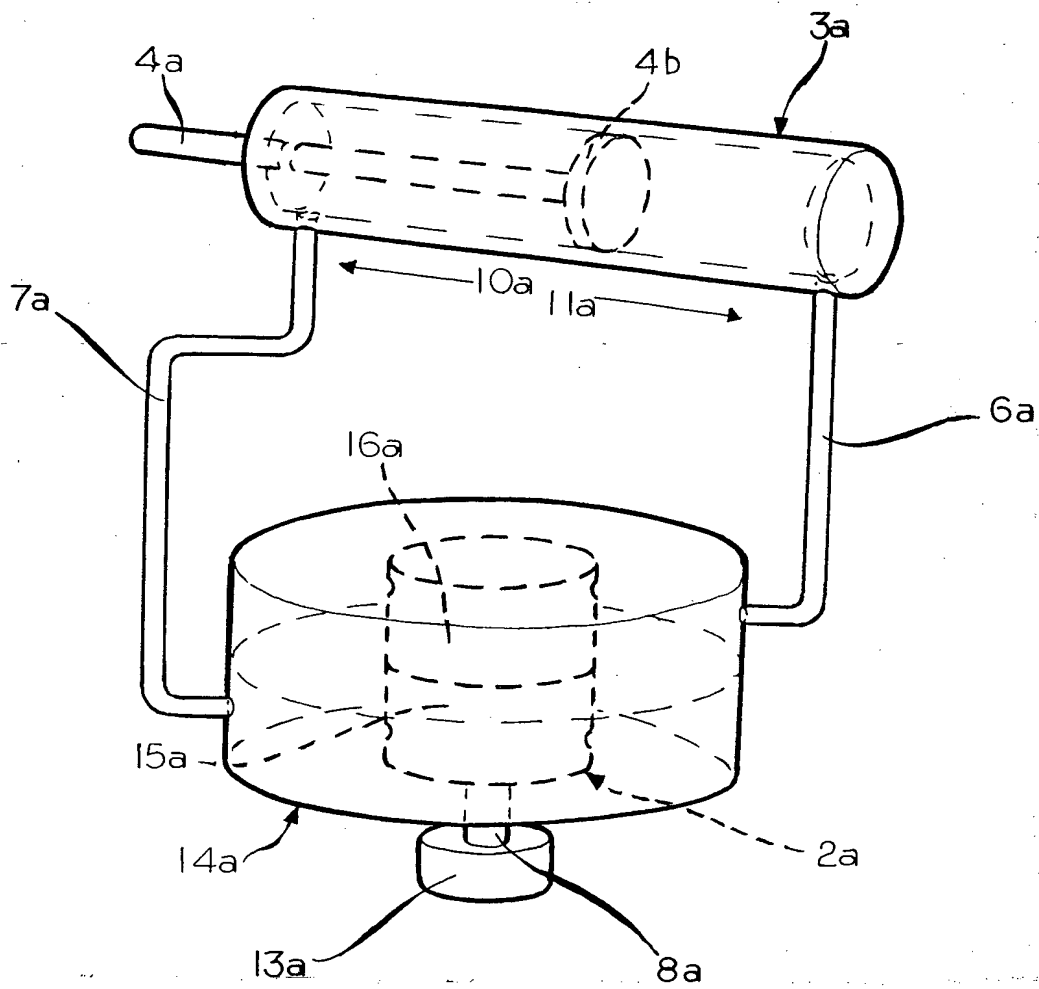


FIG. 3

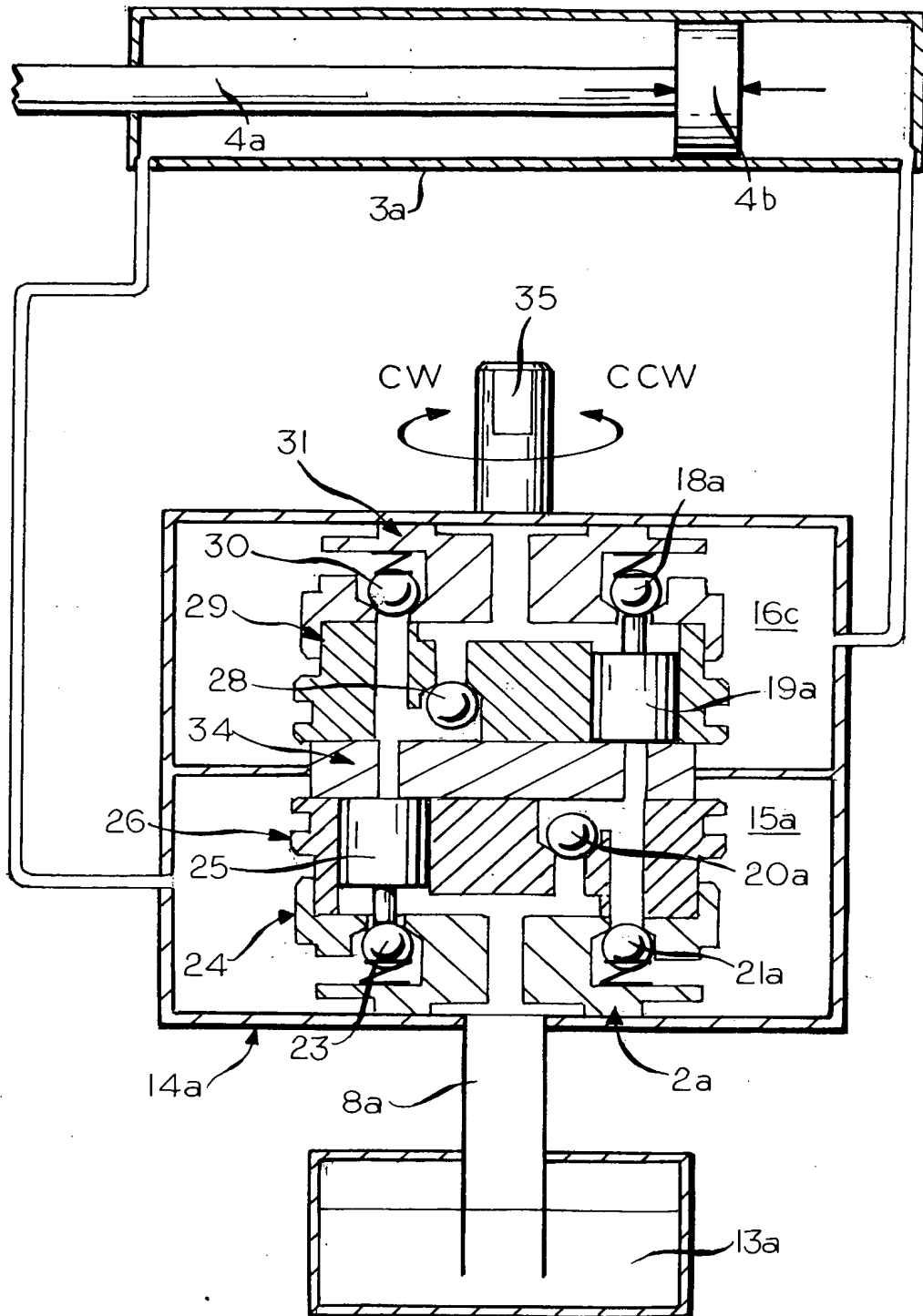


FIG.4

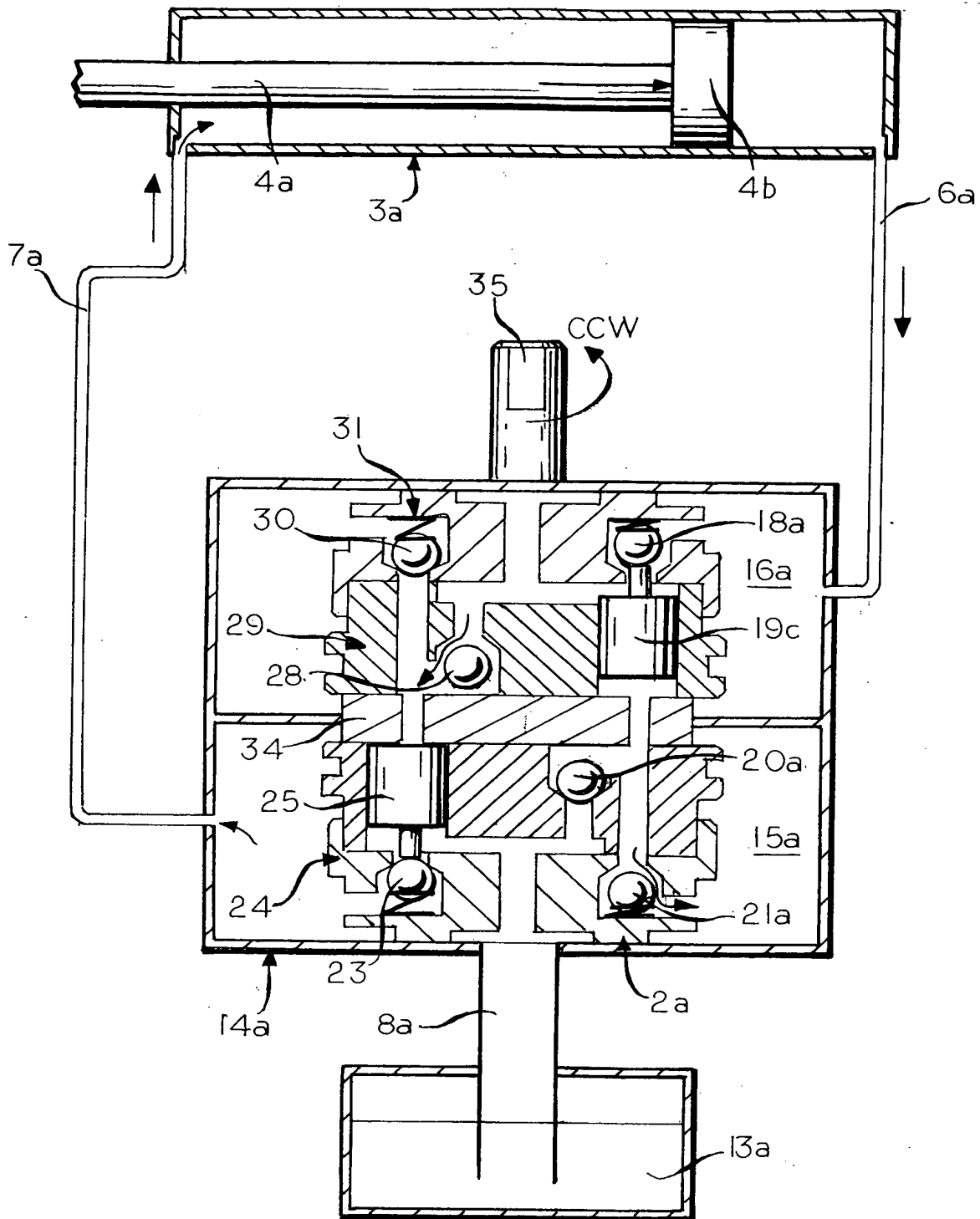


FIG. 5

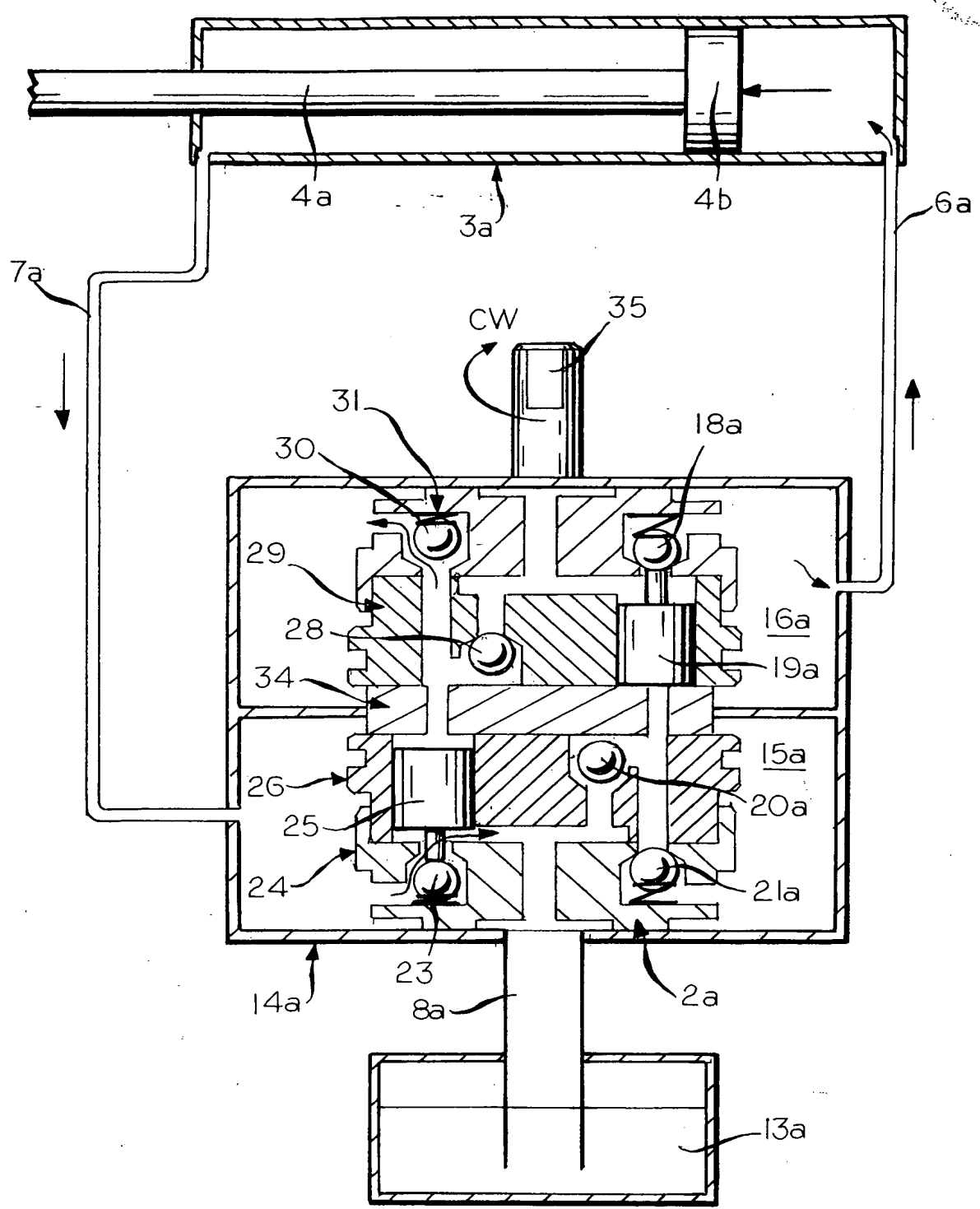


FIG.6

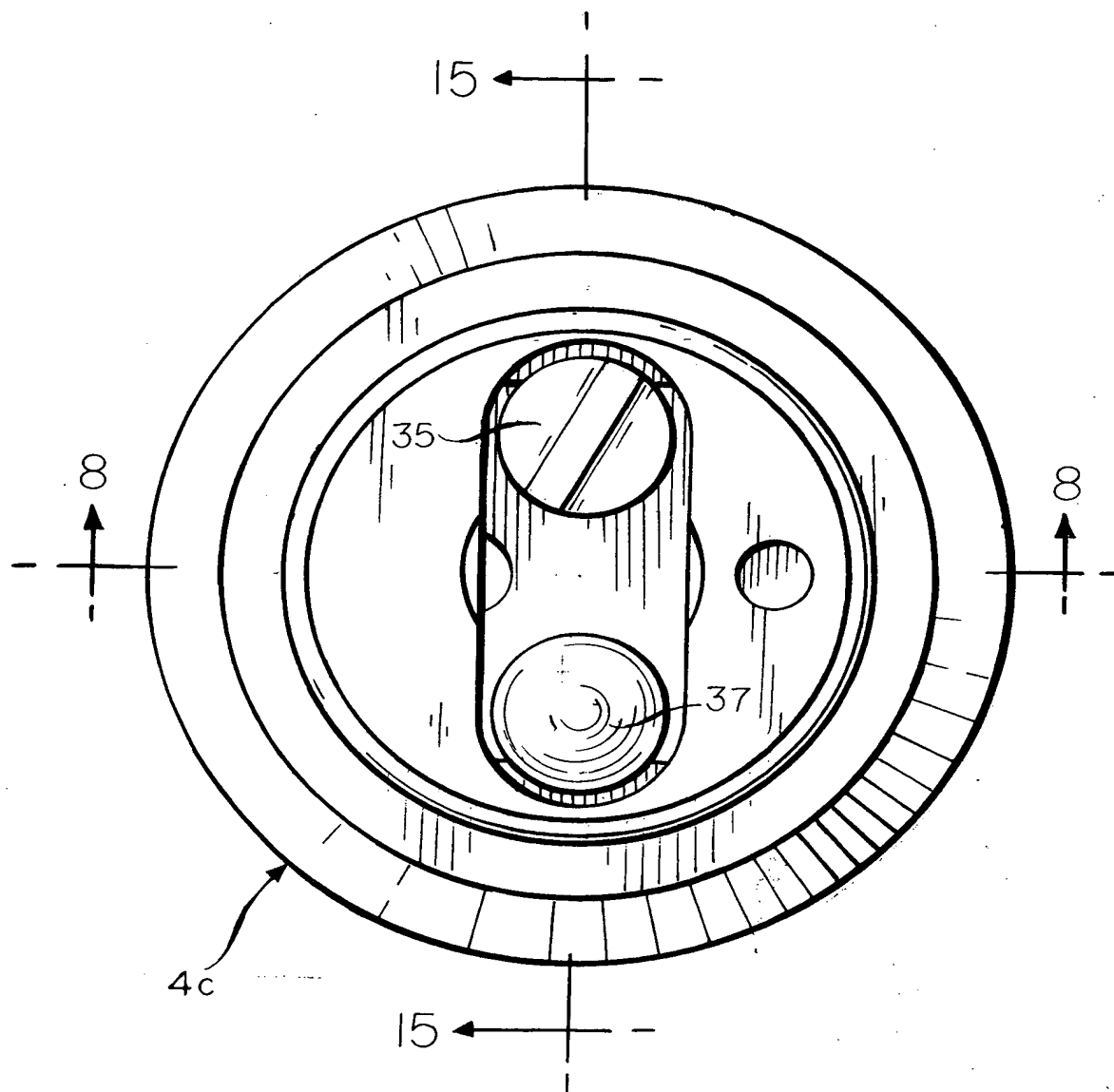


FIG.7

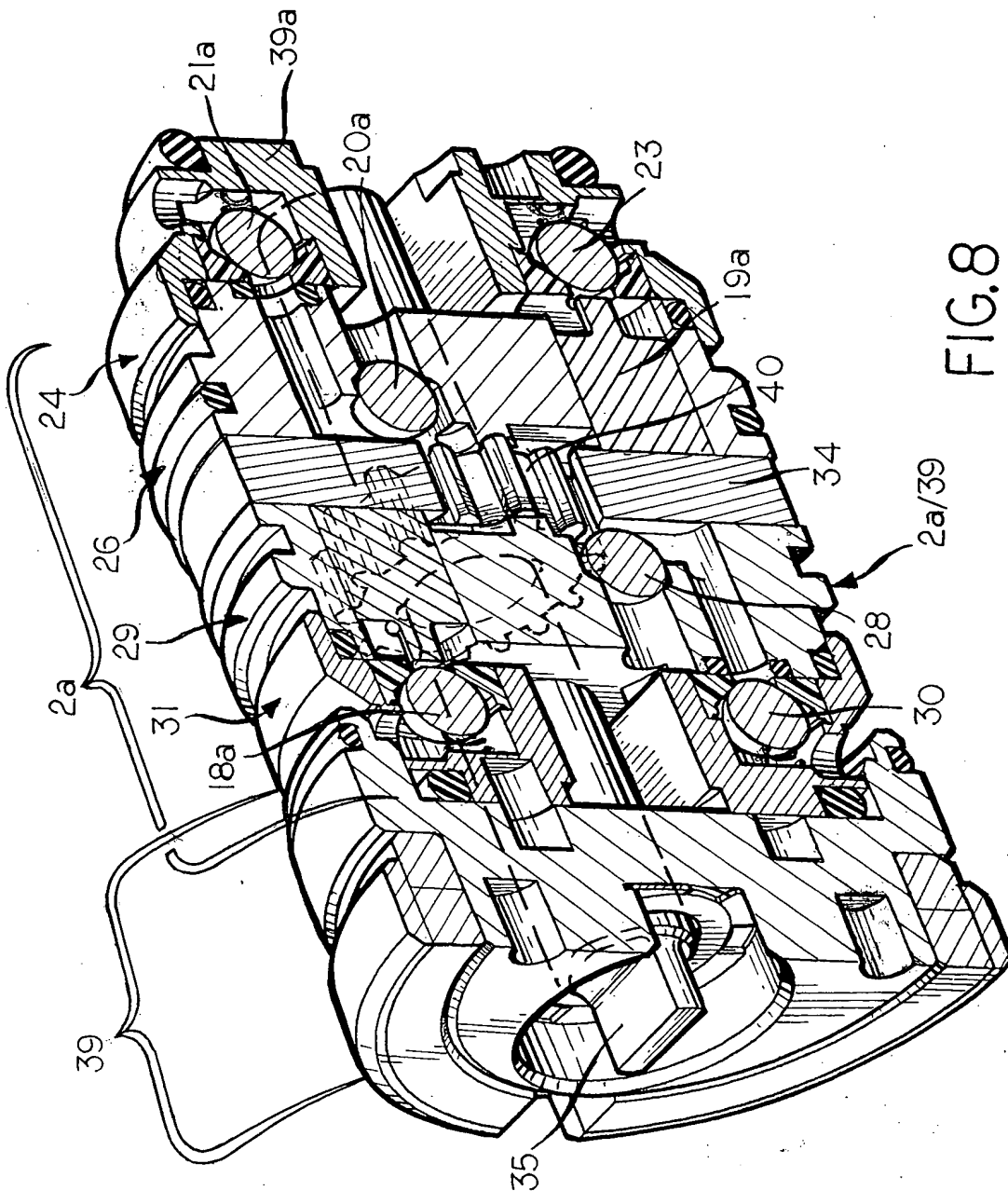


FIG. 8

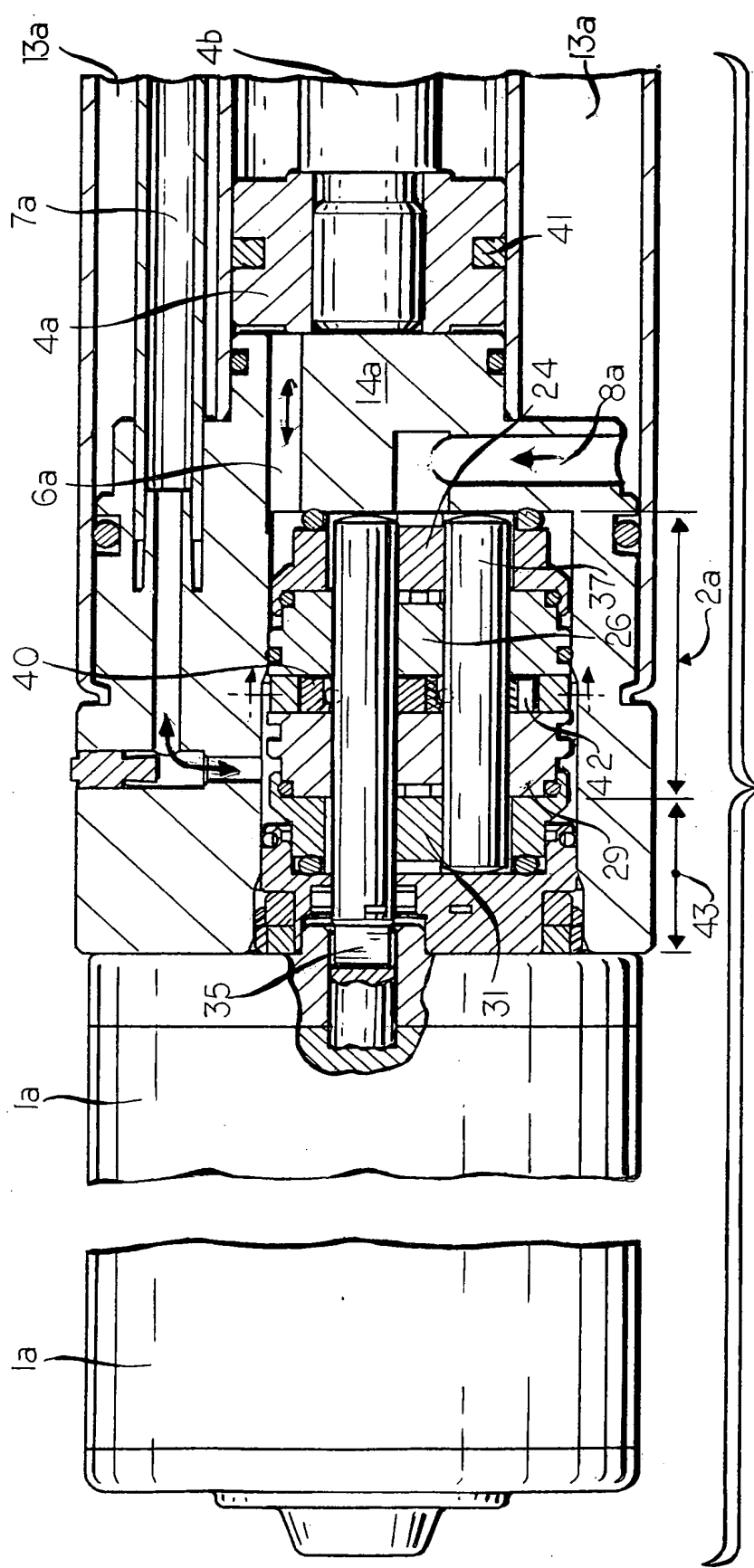


FIG. 9

APPROVED	O.G. FIG.	
BY	CLASS	SUB
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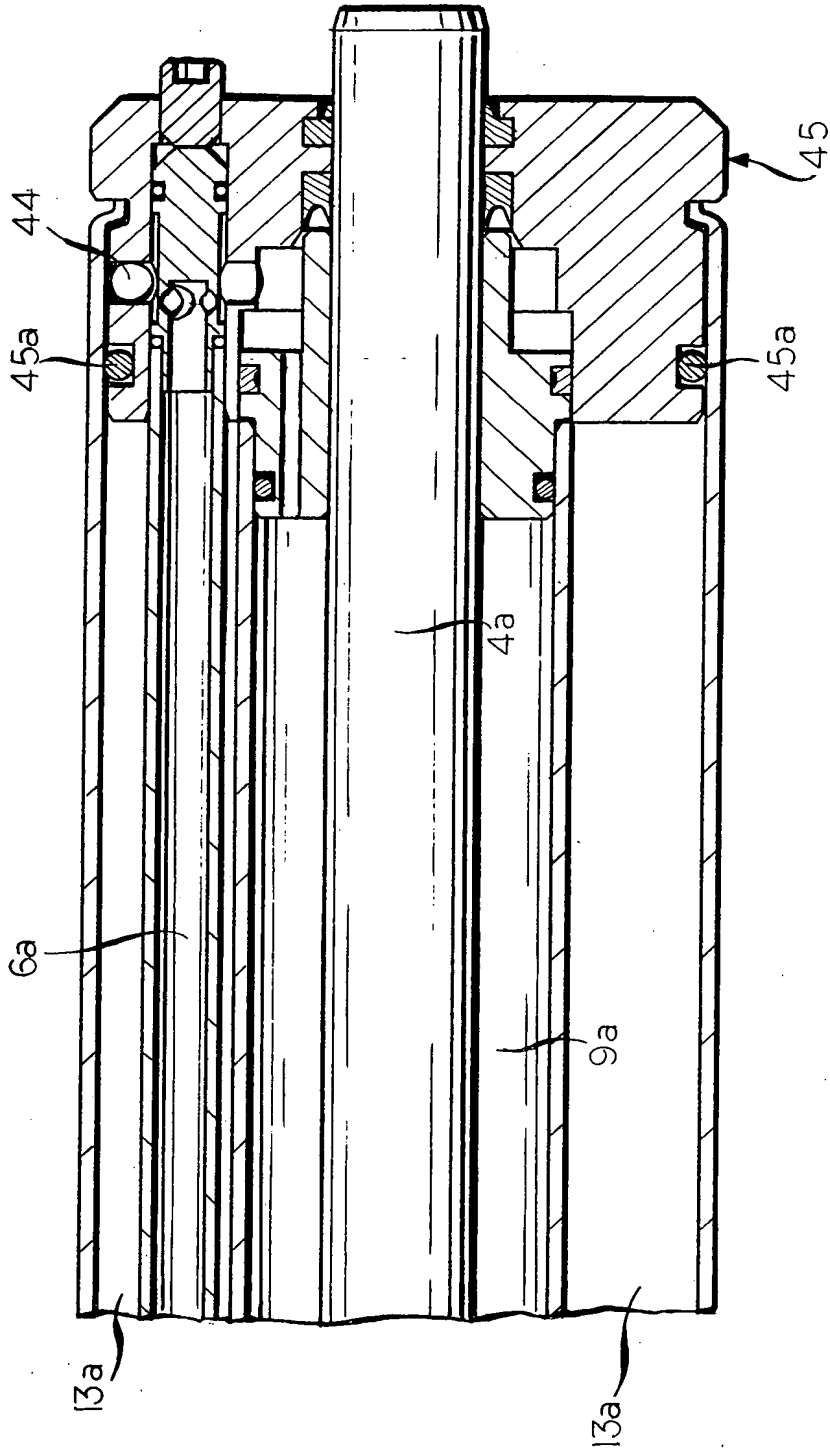
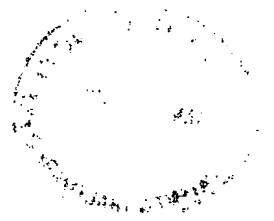


FIG. 10

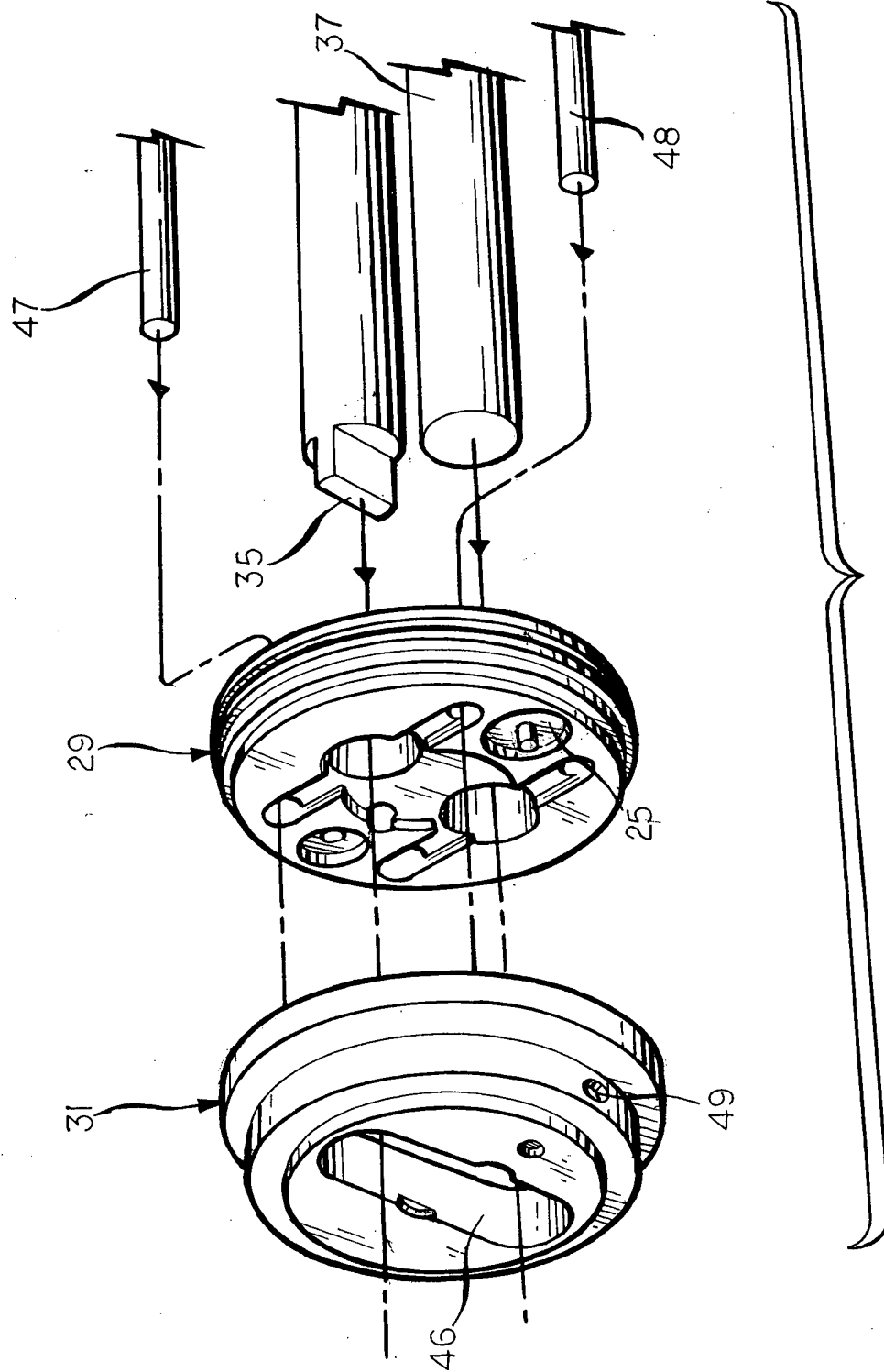


FIG. 1

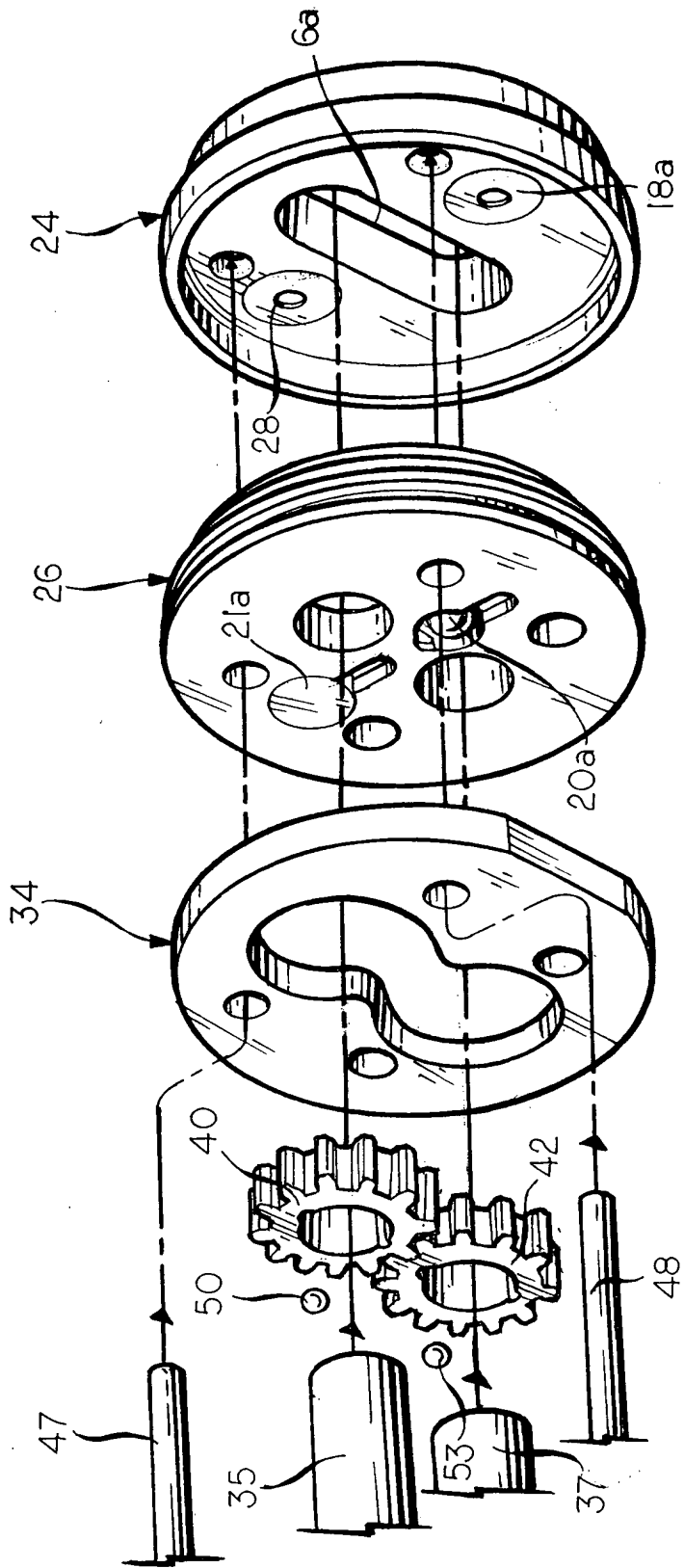
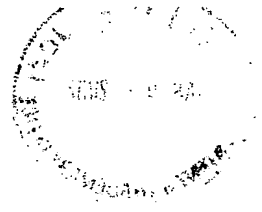
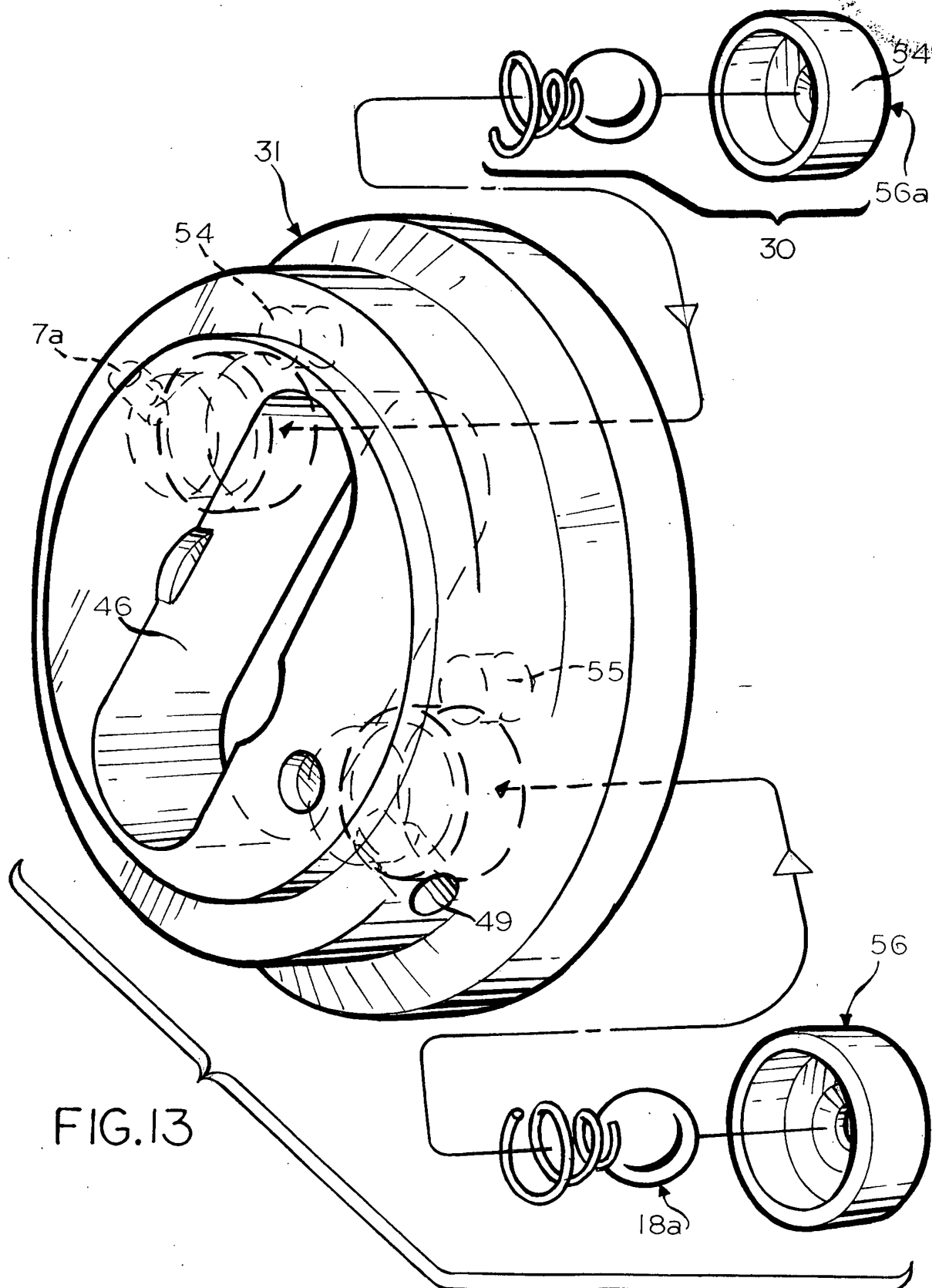


FIG. 12





APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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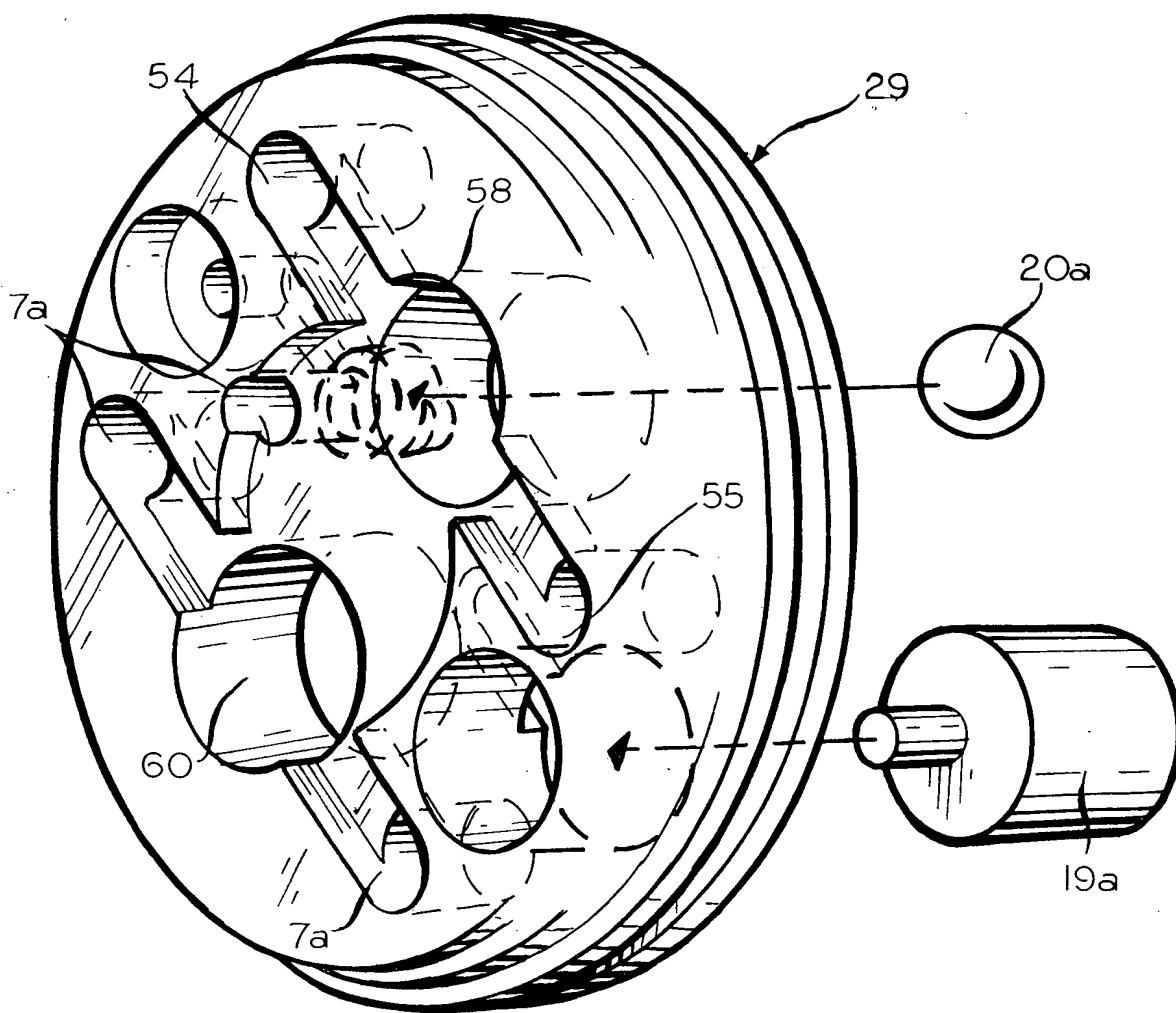
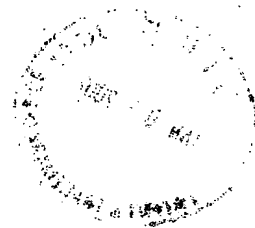


FIG. 14

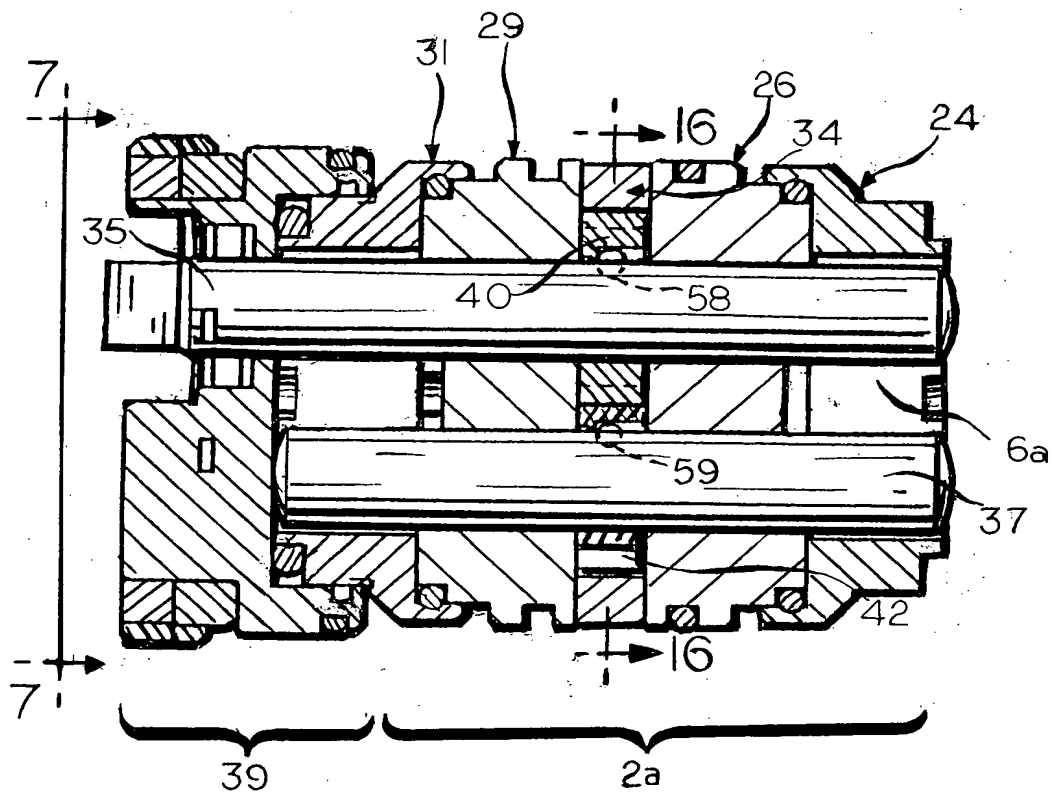
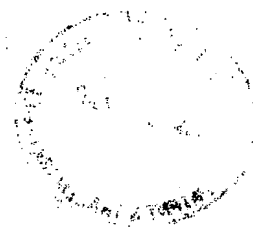


FIG. 15

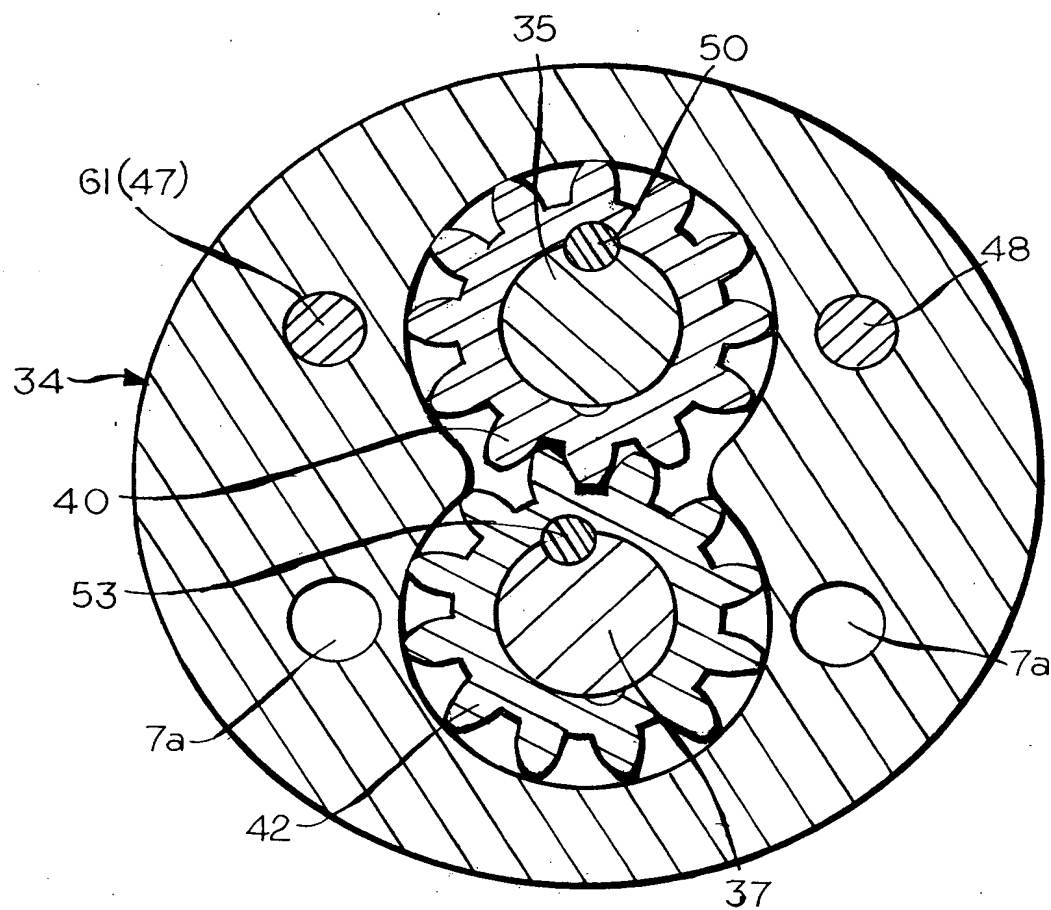


FIG. 16

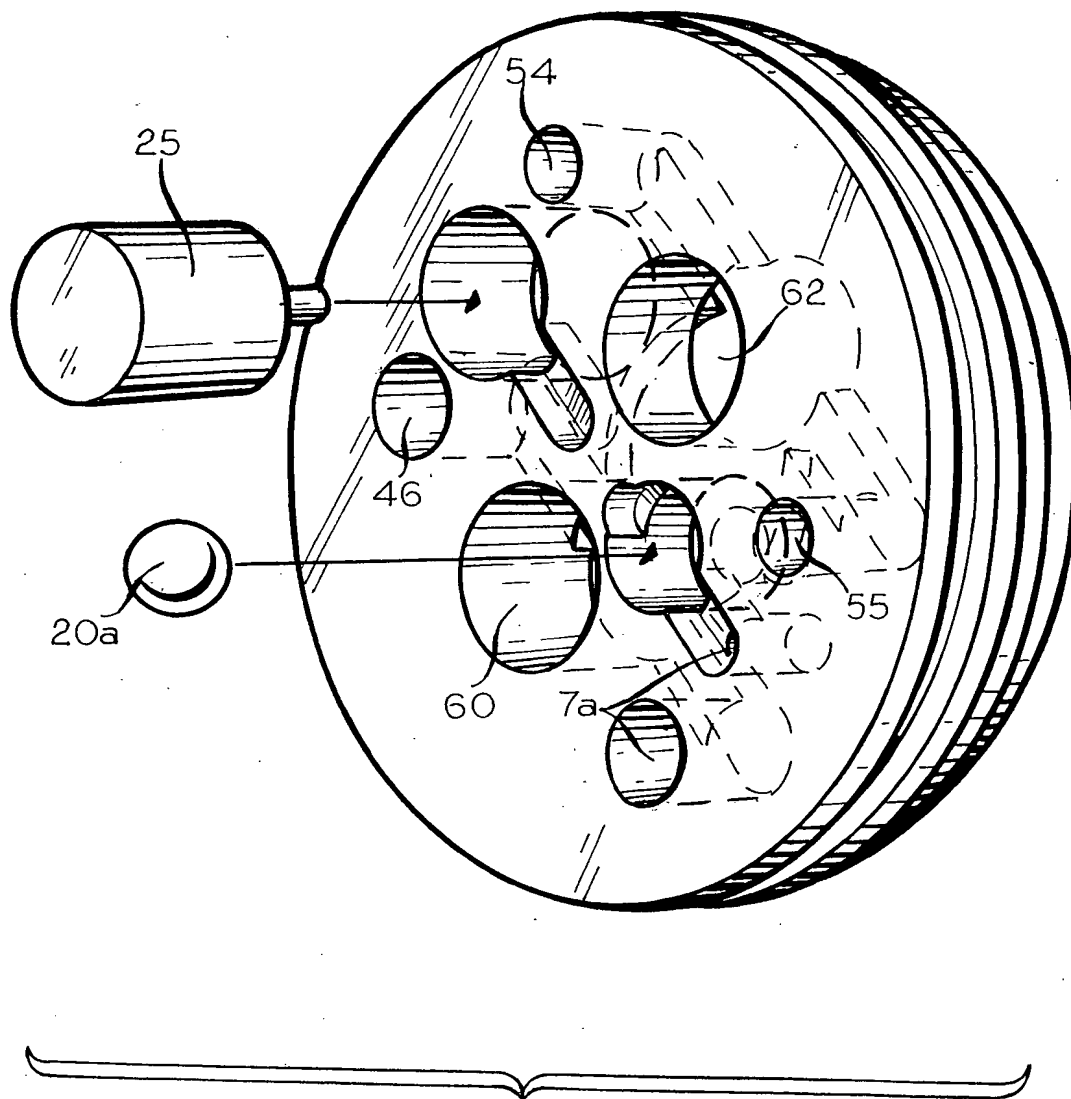
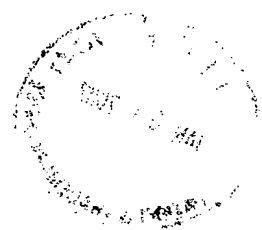


FIG. 17

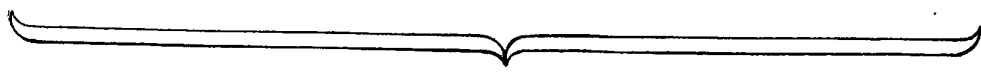
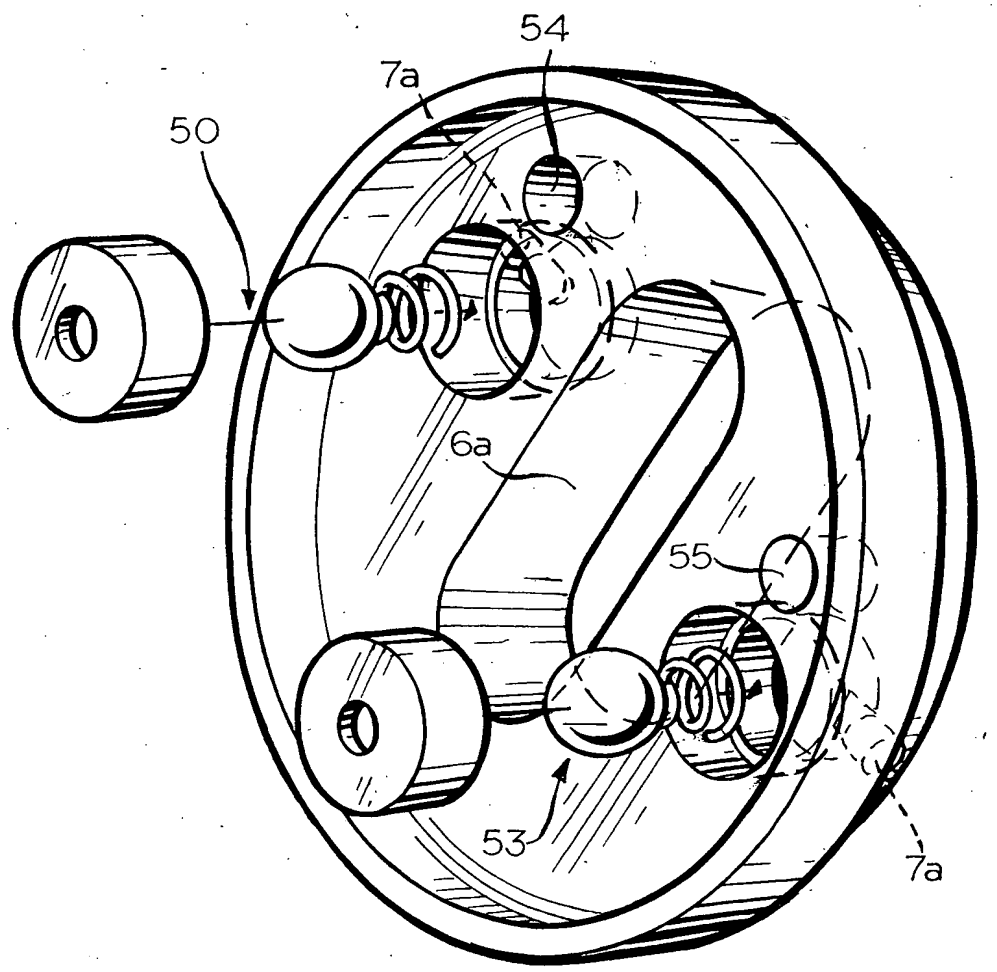
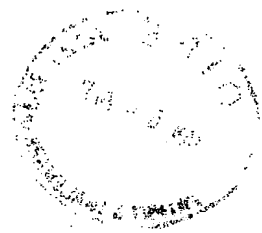


FIG.18

DOUBLE ACTING BI-ROTATIONAL PUMP

LOCKED-3a

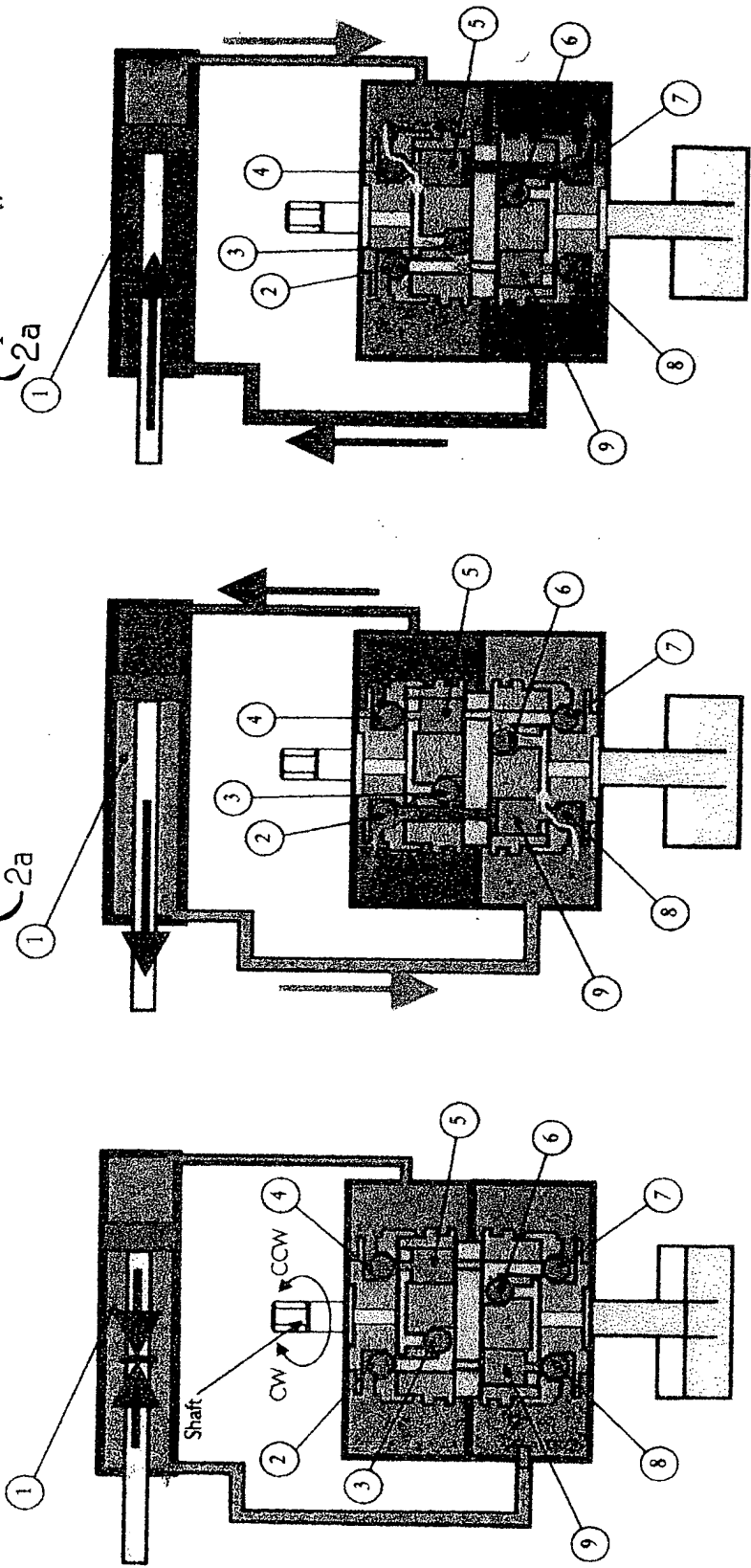
EXTEND-10a

RETRACT-11a

Actuator hydraulically locked in position

Pump rotating clockwise

Pump rotating counter clockwise



Fluid connected to tank

Fluid locked in between actuator and pump

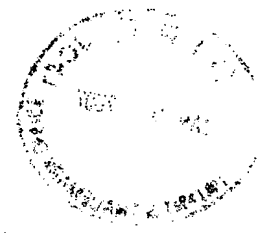
Fluid in return to tank, low pressure

Fluid high pressure working actuator

1. Hydraulic actuator
2. Check vlv out for extend
3. Suction check vlv for retract
4. Pilot check vlv for retract
5. Retract pilot piston

6. Suction check vlv for extend
7. Check vlv for retract
8. Pilot check vlv for extend
9. Extend pilot piston

FIG. 19



APPROVED	O.G. FIG.	
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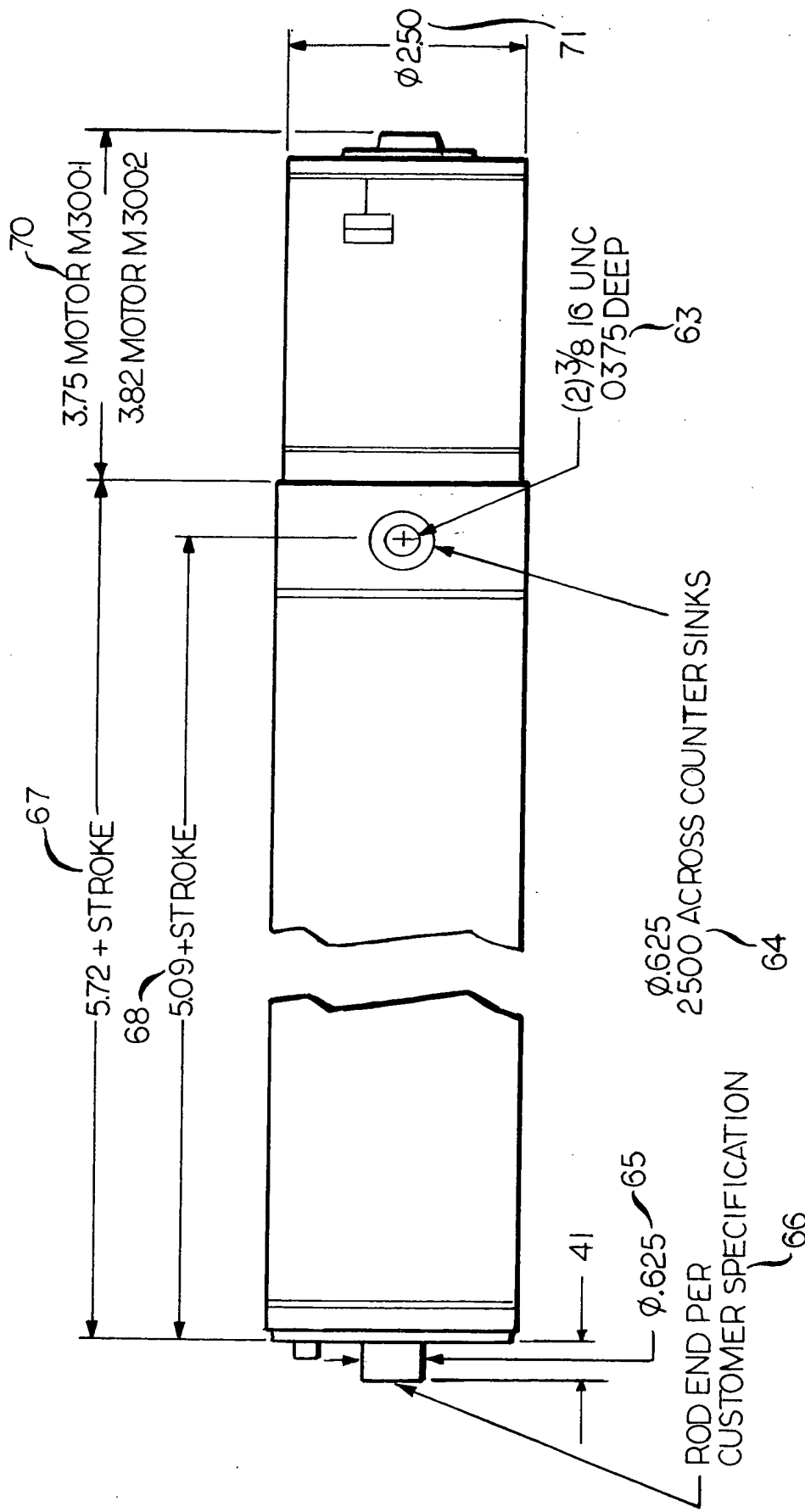


FIG. 20



ACTUATOR - 125 35 FORCE SPEED CURRENT DRAW

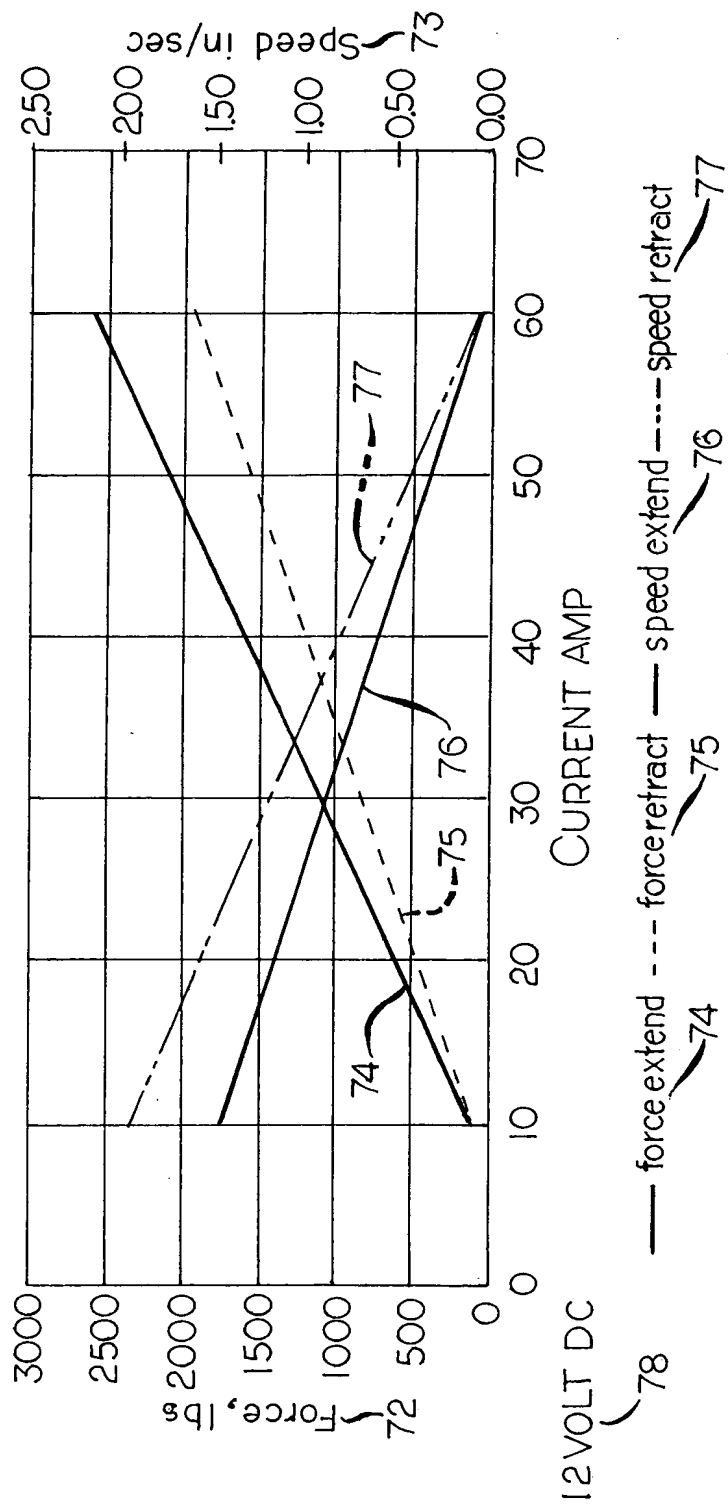
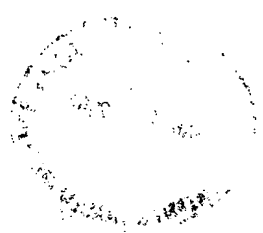


FIG. 21

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
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3
ACTUATOR 125 035 WEIGHT

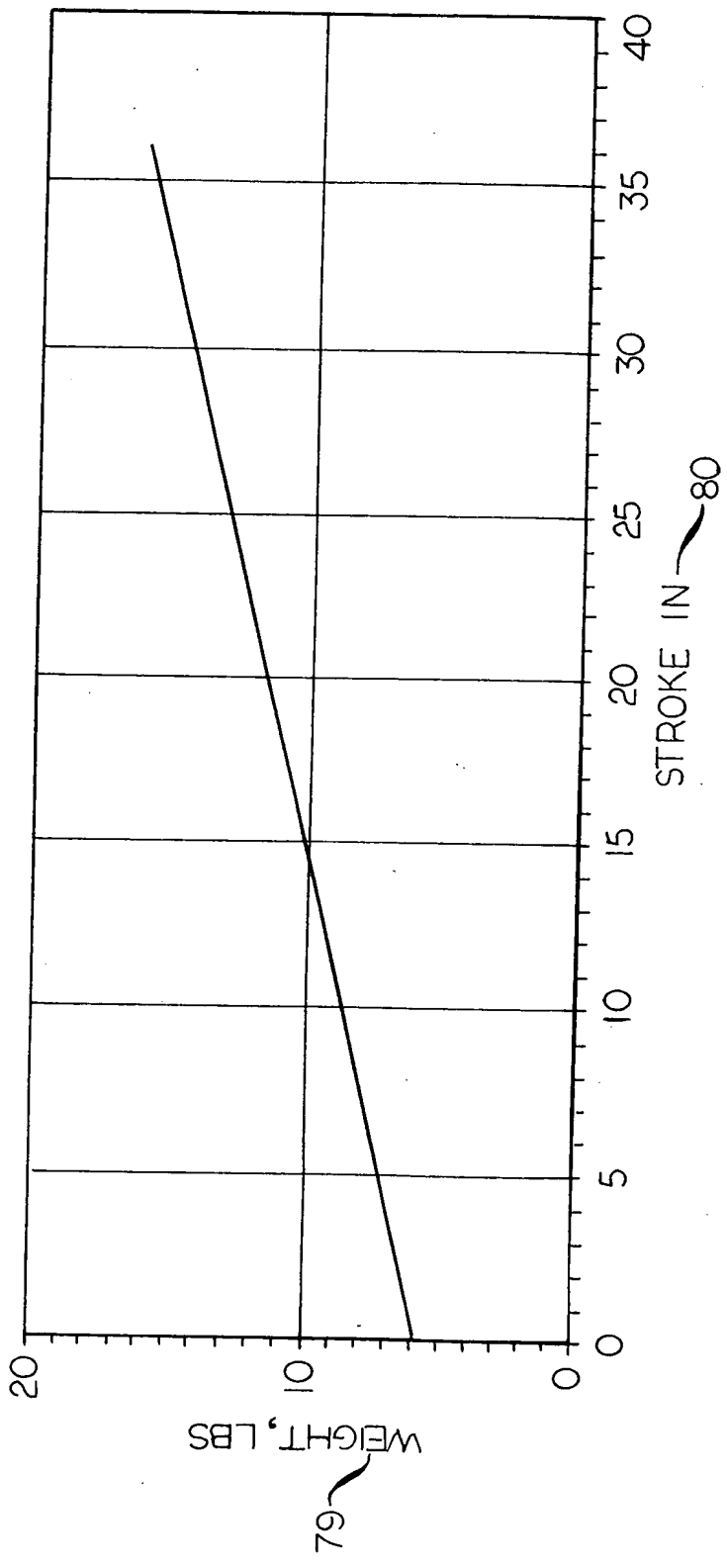


FIG. 22